

## Levofloxacin prophylaxis in patients with newly diagnosed myeloma (TEAMM)

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**Table S1: List of TEAMM trial investigators by site in order of recruitment**

Site	Investigators	No Randomised
Queen Alexandra Hospital	Helen Dignum, Alison Cook, Mary Ganczakowski, Kavitha Sooriyekumen, Charles Alderman, Katie Smith, Robert Corser, Edward Belsham, Gwynn Matthias, Inga Slepikiene, Izabela James, James Croft, Tanya Cranfield, Christopher James	51
Royal Stoke University Hospital	Kamaraj Karunanithi, Neil Phillips	39
Russells Hall Hospital	Stephen Jenkins, Rupert Hipkins, Savio Fernandes, Craig Taylor, Jeff Neilson	38
University Hospital, Coventry	Anand Lokare, Syed Bokhari, Beth Harrison, Nick Jackson, David Lewis, Oliver Chapman, Rabia Afghan	32
Colchester General Hospital	Michael Hamblin, Gavin Campbell, Marion Wood, Sudhakaran Makkuni, Mahalakshmi Mohan Pavel Kotouchek	31
Princess Royal University Hospital	Stella Bowcock, Anil Lakhani, Corrine DeLord, Mansour Ceesay, Siamak Arami, K Yip	31
St Helier Hospital	Simon Stern, Lydia Jones, Sneha Muthalali, Nicholas Fordham, Jane Mercieca, Shalini Solanki, Charlotte Pawlyn, Priya Srisikandarajah, Sandra Easdale, Ying Ying Peng	28
Medway Maritime Hospital	Maadh Aldouri, Sarah Arnott, Handunneththi Mendis, Vivienne Andrews, Waseem Nagi, Ayed Eden, Vijayavalli Dhanapal	26
Kings Mill Hospital	Rowena Faulkner, Ashish Masurekar, Tim Moorby	25
Sandwell General Hospital	Farooq Wandroo, Richard Murrin, Shivan Pancham, John Gillson, Yasmin Hasan	25
Darent Valley Hospital	Anil Kamat, Tariq Shafi, Raphael Ezekwesili, Pavel Kotoucek, Lalita Banerjee	23
Heartlands Hospital	Guy Pratt, Bhuvan Kishore, Don Milligan, Joanne Ewing, Clare Gardner, Hauder Hussein, Jonathan Lancashire, Manos Nikolousis, Neil Smith, Richard Lovell, Shanbara Paneesha	21
Northampton General Hospital	Alistair McGrann, Angela Bowen, Jane Parker, Sajjan Mittal, Suchi Krishnanurthy, George Cherian, Philip George, Rebecca Allchin	19
Ulster Hospital, Belfast	Jeremy Hamilton, Moulod El-Agnaf, Yong Lee Ong, Adnan Alshoufi, Anna Elliott, Barbara Black, Margaret Bowers	18
Wrexham Maelor Hospital	Lally Desoysa, David Watson	18
Castle Hill Hospital	David Allsup, Haz Sayala, Senthil Durairaj, Andrew Fletcher, Safia Dawi	17
Guy's and St Thomas' Hospital	Matthew Streetly	17
Salisbury District Hospital	Jonathan Cullis, Louise Fraser, Tamara Everington, Effie Grand, Freya Collings	17
West Middlesex University Hospital	Magda Jabbar Al-Obaidi,	17

	Anna Babb, Andrew Godfrey, Andrew Hastings, John Riches	
Queen Elizabeth Hospital, Kings Lynn	Lisa Cooke, Ramaprabhahari Satheshkumar, Emma Gudgin, Kway Zin Maw, Martin Lewis, Joseph Padayatty, Mark Robinson	16
Southampton General Hospital	Matthew Jenner, Srinivasan Narayanan	14
Southmead Hospital	Alastair Whiteway, Samreen Siddiq, Miloslav Kmonicek	14
Chesterfield Royal Hospital	Peter Toth, Andrew Fletcher, Emma Welch, Mark Wodzinski, Sandor Lueff	13
Great Western Hospital	Norbert Blesing, Hala Ahmed, Alex Sternberg	13
Queen Elizabeth Hospital, Birmingham	Yu Sandar Aung, Mark Cook, Timothy Wong, David Burns, Manoj Raghavan	13
Queen's Hospital, Romford	Biju Krishnan, Claire Hemmaway, Paul Greaves	13
Royal Berkshire Hospital	Sadon Hassan, Henri Grech, Karthik Ramasamy, Michael Desborough, Rebecca Sampson	13
Stoke Mandeville Hospital	Helen Eagleton, Anne-Marie O'Hea, Beena Pushkaran, Ann Watson, Naima Ansari	13
Ealing Hospital	Mamta Sohal, Richard Kaczmariski, Christine Liu, Angharad (Hari) Pryce, Janeta Grigorova	12
Manchester Royal Infirmary	Alberto Rocci, Simon Gibbs, Eleni Tholouli, Rajesh Krishna	12
Royal United Hospital, Bath	Josephine Crowe, Sally Moore, Amy Knott, Jane Norman, Jennifer Page, Karan Wadehra	12
Altnagelvin Hospital	Feargal McNicholl, Patrick Elder, Curly Morris	11
Lincoln County Hospital	Kandeepan Saravanamuttu, Charlotte Kallmeyer, Caroline Harvey	11
Northwick Park Hospital	Charalampia Kyriakou, Robert Ayto, Nicki Panoskaltsis	11
Southend University Hospital	Paul Cervi, Mohammed Islam	11
St James University Hospital	Gordon Cook, Charlotte Kallmeyer, Christopher Parrish	11
Wythenshawe Hospital	Sumaya Elhanash, Shiva Kumar Natarajan, Simon Watt	11
Stafford Hospital (Stafford)	Paul Revell, Avrangzeb Razzak, Andrew Amos, Ghulam Kakepoto, Mohammed Hameed	10
Glangwili General Hospital	Sonya Goriah, Peter Cumber, Praba Gupta	10
North Middlesex University Hospital	Neil Rabin	10
Royal Devon and Exeter Hospital	Claudius Rudin, Tony Todd, Loretta Ngu, Paul Kerr	10
Wycombe Hospital	Beena Pushkaran, Robin Aitchson	10
Calderdale Royal and Huddersfield Royal Infirmary	Sylvia Feyler, Nwe Oo, Wunna Swe, Sylvia Feyler,	9
New Cross Hospital	Supratik Basu, Sophie Lee	9
Bradford Royal Infirmary	Adrian Williams, Anshu Garg, Nandini Sadasivam, William Wong	8
Broomfield Hospital	Vijoy Chowdhury, Finella Brito, Shereen Elshazly, Waseem Nagi	8

Warrington Hospital	Chandramouli Nagarajan, Jeyaprakash Ramachandran, Mohamed Kaleel Rahman	8
Hereford County Hospital	Christopher Branner, Lisa Robinson, Sara Willoughby	7
Leicester Royal Infirmary	Claire Chapman, Mamta Garg	7
Milton Keynes Hospital	Moez Dungaewalla, Subir Mitra	7
Pilgrim Hospital Boston	Ciro Rinaldi, Juan Contesti, Mohammed Hameed	7
Royal Hampshire County Hospital	Jennifer Arnold, Katherine Lowndes, Nigel Sargant	7
Royal Surrey County Hospital	Johannes De Vos, Elizabeth Grey-Davies, Louise Hendry	7
Craigavon Area Hospital	Kathryn Boyd, Donald Hull, Frank Jones, Hakim Eswedi, Jonathan Palmer	6
George Eliot Hospital	Mekkali Narayanan, Jagadeesh Gandla, Jhansi Muddana	6
Good Hope Hospital	Vidhya Murthy, Bhuvan Kishore, Richard Lovell	6
Queens Hospital, Burton	Jawaid Channa, Humayun Ahmad, Bernhard Van Staden	6
Royal Hallamshire Hospital	Andrew Chantry	6
Sunderland Royal Hospital	Shikha Chattree, Susanna Matthew, Victoria Hervey	6
Basildon University Hospital	Joanne Howard, Parag Jasani	5
Gloucestershire Royal Hospital	Michael Sheilds, Asha Johny, Phil Robson, Sally Chown	5
University Hospital, Lewisham	Naheed Mir, Tullie Yeghen, Murugaiyan Thanigaikumar	5
Warwick Hospital	Carolina Arbuthnot, Katie Randall, Anton Borg	5
Wexham Park Hospital	Mark Offer, Carolina Lahoz, Nicola Bienz	5
Antrim Hospital	Philip Windrum, Joanne Murdock, Scott McCloskey	4
King's College Hospital	Steve Schey, Guillermo Orti	4
Kingston Hospital	Sangeetha Atwal, Samir Zebari, Vishal Jayakar	4
Royal Liverpool University Hospital	Nauman Butt, Stephen Hawkins	4
Torbay Hospital	David Tucker, Deborah Turner, Steve Smith	4
Whipps Cross Hospital	Sajida Kazi, Syed Rabbani	4
Basingstoke and North Hampshire Hospital	Noel Ryman	3
Frenchay Hospital	Samreen Siddiq, Alastair Whiteway	3
Leighton Hospital	Kamaraj Karunanithi	3
Queen Elizabeth Hospital (London)	Ana Duran, Betty Cheung	3
Royal Bournemouth Hospital	Rachel Hall	3
Withybush Hospital	Sumant Kundu	3
Dewsbury & District Hospital	Mary Chapple	2
Diana, Princess of Wales Hospital	Susan Levison-Keating	2
Dorset County Hospital	Akeel Moosa	2
Grantham & District Hospital	Caroline Harvey	2

Hillingdon Hospital	Richard Kaczmariski	2
Kettering General Hospital	Mark Kwan, Matthew Lyttelton	2
Pinderfields General Hospital (Wakefield)	Paul Moreton, Praveen Kaudlay	2
Poole Hospital	Fergus Jack	2
Pontefract General Infirmary	David Wright	2
Royal Shrewsbury Hospital	Emma Litt, Stephen McKew	2
Glan Clwd Hospital	Earnest Heartin	1
Macclesfield District General Hospital	John Hudson	1
Royal Gwent Hospital	Jessica Anderson	1
North Bristol Hospital	-	0
North Devon District Hospital	-	0
Tameside General Hospital	-	0
<b>Grand Total</b>		<b>977</b>

**Table S2: Reported Serious Adverse Reactions (SARs) by treatment arm**

Treatment	CTCAE Term Description	Severity assessment	Causality	Trial Drug Discontinued?	Event outcome
Levofloxacin	Rash	Mild	Probably	Yes	Resolved-no sequelae
Levofloxacin	Rash & Fever	Moderate	Possibly	No	Resolved-with sequelae
Levofloxacin	Rash & Diarrhoea	Moderate	Possibly	Yes	Resolved-no sequelae
Levofloxacin	Rash	Moderate	Possibly	No	Resolved-no sequelae
Levofloxacin	Rash	Moderate	Possibly	No	Resolved-no sequelae
Levofloxacin	Fever, Neutropenia & Rash	Severe	Possibly	Yes	Resolved-no sequelae
Levofloxacin	Rash	Severe	Possibly	No	Resolved-with sequelae
Levofloxacin	Rash	Severe	Possibly	Yes	Resolved-no sequelae
Levofloxacin	Rash	Severe	Possibly	Yes	Resolved-no sequelae
Placebo	Rash, Fever & Acute Kidney Injury	Moderate	Possibly	Yes	Resolved-no sequelae
Placebo	Rash	Moderate	Possibly	.	Resolved-with sequelae
Placebo	Rash	Moderate	Probably	Yes	Resolved-no sequelae
Placebo	Rash	Moderate	Possibly	No	Resolved-no sequelae
Placebo	Rash & Fever	Severe	Possibly	No	Resolved-with sequelae
Placebo	Rash	Severe	Possibly	Yes	Resolved-no sequelae
Placebo	Rash	Fatal/life threat	Probably	.	Resolved-no sequelae
Levofloxacin	Diarrhoea	Mild	Possibly	No	Resolved-no sequelae
Levofloxacin	C Diff Infection Diarrhoea	Moderate	Probably	Yes	Resolved-no sequelae
Levofloxacin	Diarrhoea & Vomiting	Moderate	Possibly	No	Resolved-no sequelae
Levofloxacin	Diarrhoea & Vomiting	Moderate	Possibly	No	Resolved-no sequelae
Levofloxacin	Diarrhoea	Severe	Possibly	No	Resolved-no sequelae
Levofloxacin	Diarrhoea & Vomiting	Severe	Possibly	No	Resolved-no sequelae
Placebo	Diarrhoea	Moderate	Possibly	No	Resolved-no sequelae
Placebo	Diarrhoea & Elevated Alt	Moderate	Probably	Yes	Resolved-no sequelae
Placebo	Diarrhoea & Fever	Moderate	Possibly	Yes	Resolved-no sequelae
Placebo	Diarrhoea & Fever	Moderate	Possibly	No	Resolved-no sequelae
Placebo	Diarrhoea	Severe	Possibly	No	Resolved-no sequelae
Placebo	Diarrhoea & Anorexia Chest Wall Pain	Severe	Probably	No	Resolved-no sequelae
Placebo	Diarrhoea & Hypoxia	Severe	Possibly	No	Resolved-no sequelae
Placebo	Diarrhoea & Vomiting	Severe	Possibly	No	Resolved-no sequelae
Levofloxacin	Fever & Arrhythmia	Mild	Possibly	No	Resolved-no sequelae
Levofloxacin	Fever	Moderate	Possibly	No	Resolved-no sequelae
Levofloxacin	Fever & Vomiting	Severe	Probably	No	Resolved-no sequelae
Levofloxacin	Fever	Severe	Possibly	No	Resolved-no sequelae
Levofloxacin	Fever & Arrhythmia	Fatal/life threat	Possibly	Yes	Resolved-no sequelae
Levofloxacin	Fever & Acute Kidney Injury	Fatal/life threat	Possibly	Yes	Resolved-with sequelae
Placebo	Fever	Mild	Possibly	No	Resolved-no sequelae
Placebo	Fever & Diverticulitis	Fatal/life threat	Possibly	No	Resolved-no sequelae
Levofloxacin	Tendonitis	Mild	Probably	Yes	Resolved-no sequelae
Levofloxacin	Tendonitis & Anaemia	Moderate	Probably	Yes	Resolved-with sequelae
Levofloxacin	Tendonitis	Moderate	Probably	Yes	Resolved-no sequelae
Levofloxacin	Tendonitis, Infection Gut , Diarrhoea & Vomiting	Severe	Possibly	Yes	Resolved-with sequelae
Levofloxacin	Tendonitis	Severe	Probably	Yes	Resolved-with sequelae
Levofloxacin	Acute Kidney Injury & Myalgia	Moderate	Possibly	Yes	Resolved-no sequelae
Levofloxacin	Acute Kidney Injury & Anaemia	Moderate	Possibly	.	Unresolved
Levofloxacin	Acute Kidney Injury	Moderate	Possibly	No	Resolved-no sequelae
Placebo	Acute Kidney Injury	Severe	Possibly	Yes	Resolved-with sequelae
Levofloxacin	Arrhythmia	Moderate	Possibly	Yes	Resolved-no sequelae
Levofloxacin	Chest Infection & Arrhythmia	Severe	Possibly	No	Resolved-no sequelae
Placebo	Sinus Bradycardia & ARRYTHMIA	Moderate	Possibly	No	Resolved-no sequelae
Levofloxacin	Confusion & Anaemia	Moderate	Possibly	No	Death
Levofloxacin	Confusion	Fatal/life threat	Definitely	Yes	Resolved-no sequelae
Levofloxacin	Neutropenia	Mild	Possibly	No	Resolved-no sequelae
Levofloxacin	GIT Infection	Mild	Possibly	No	Resolved-no sequelae
Levofloxacin	Chest Infection & <i>pneumocystis</i> Treatment	Moderate	Probably	No	Resolved-no sequelae

Levofloxacin	Sensory Neuropathy	Moderate	Possibly	Yes	Resolved-with sequelae
Levofloxacin	Vomiting	Severe	Possibly	No	Resolved-no sequelae
Placebo	Dehydration Hypotension	Moderate	Possibly	No	Resolved-no sequelae
Placebo	Vertigo	Moderate	Probably	Yes	Resolved-no sequelae

**Table S3: Sites of febrile infection by treatment arm**

	Levofloxacin		Placebo		Total	
Site of infection	N	%	N	%	N	%
Lower respiratory tract	39	47	49	51	88	49
Upper respiratory tract	11	13	11	11	22	12
Intravenous catheter associated	1	1	1	1	2	1
Bloodstream	5	6	8	8	13	7
Urinary tract infection	6	7	7	7	13	7
Gastrointestinal tract	2	2	3	3	5	3
Skin soft tissue	6	7	8	8	14	8
Other site	7	8	7	7	14	8
Unknown	6	7	1	1	7	4

There were 14 'other' reported sites of febrile infections (7 levofloxacin and 7 placebo). The 7 reported on levofloxacin being: Suspected Meningitis, Acute kidney infection, Diverticular abscess, Generalised myalgia possibly viral, Hospital Acquired Pneumonia-AKI both on diagnosis, Reaction to either Allopurinol or thalidomide, Intraoperative tear during spinal surgery where patient spiked temp after surgery, infection suspected. The 7 reported on the Placebo were: Neutropenic sepsis (2 patients), Neutropenic sepsis + Anaphylaxis type reaction, Neutropenic sepsis allergic reaction to medication, Acute cholecystitis, Fever and Atrial fibrillation, Testicles.



**Table S4: Reported potentially pathogenic or invasive isolates from local laboratories by treatment arm**

Species	Levofloxacin	Placebo	Total
<b>Total Gram negative</b>	<b>6 (18%)</b>	<b>27 (82%)</b>	<b>33</b>
Enterobacteriaceae	4	14	18
Pseudomonas Spp.	0	5	5
Other Gram negative	2	8	10
<b>Total Gram positive</b>	<b>16 (44%)</b>	<b>20 (56%)</b>	<b>36</b>
Staphylococcus aureus	4	6	10
Streptococcus pneumoniae	0	3	3
Coagulase negative staphylococcus	5	5	10
Other Gram positive	7	6	13
<b>Total other bacterial</b>	<b>4 (50%)</b>	<b>4 (50%)</b>	<b>8</b>
Anaerobe	1	2	3
Mixed growth	3	2	5
<b>Total Viral</b>	<b>10 (50%)</b>	<b>10 (50%)</b>	<b>20</b>
<b>Adenovirus</b>	<b>1</b>	<b>0</b>	<b>1</b>
<b>Cytomegalovirus</b>	<b>1</b>	<b>0</b>	<b>1</b>
Herpes simplex/Varicella	3	0	3
Influenza	2	5	7
Metapneumovirus	0	2	2
Parainfluenza	2	3	5
Respiratory Syncytial Virus (RSV)	1	0	1
<b>Candida species*</b>	<b>8 (53%)</b>	<b>7 (47%)</b>	<b>15</b>
<b>Total isolates</b>	<b>44 (39%)</b>	<b>69 (61%)</b>	<b>112</b>

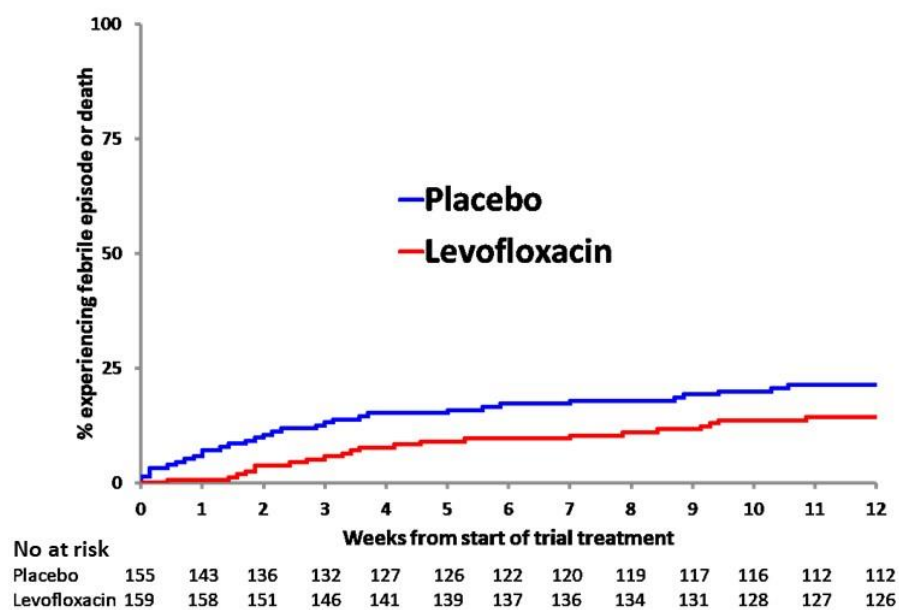
\*Note: majority (14/15) oral/upper respiratory samples

**Table S5: Antibigrams by treatment arm**

	Levofloxacin		Placebo	
Antibiotic category	Number sensitive /number tested	%	Number sensitive /number tested	%
Quinolone	0/3	0	7/8	88
Penicillin	10/19	53	16/30	53
Aminoglycoside	5/7	71	11/13	85
Co-amoxiclav	4/5	80	9/14	64
Piperacillin Tazobactam	2/2	100	7/8	88
Carbapenem	2/2	100	6/6	100
Cephalosporin	2/2	100	6/8	75
Other	34/44	76	62/83	75
Total	59/84	70%	124/170	73%

Figure S1: Treatment arm stratified by Co-trimoxazole

a) Co-trimoxazole



b) No Co-trimoxazole

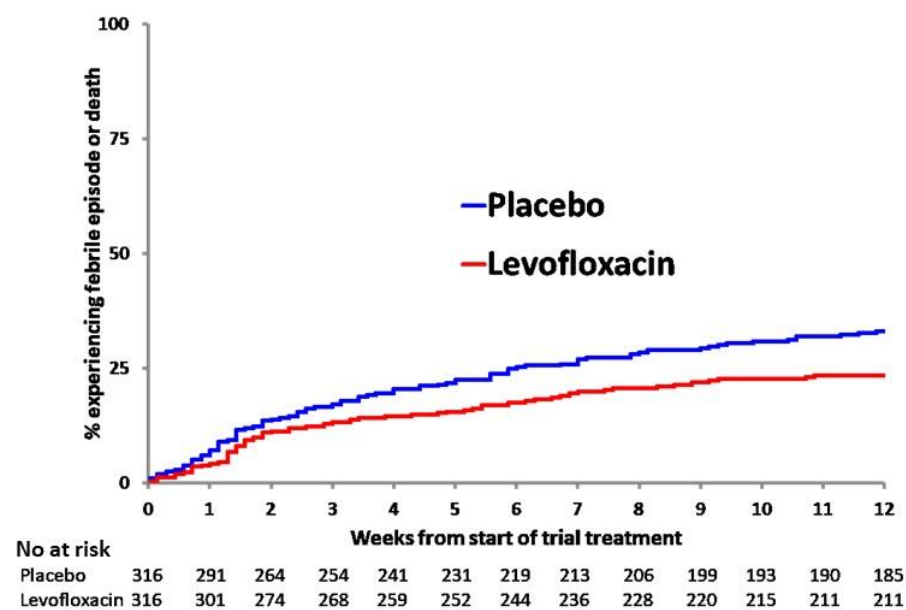


Figure S2: Overall survival up to 12 months

